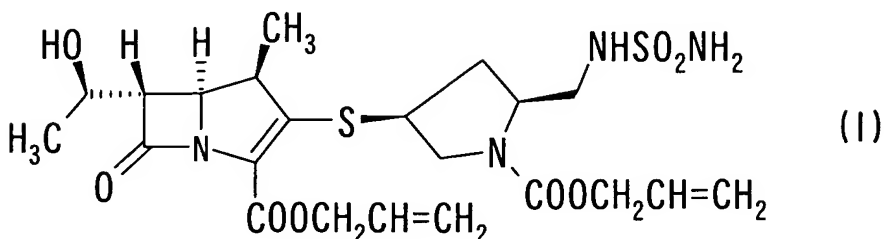


CLAIMS

1. A solvate of the compound (I) of the formula:



5

or a crystal thereof.

2. An alcohol solvate of the compound (I) or a crystal thereof according to claim 1.
3. A 2-propanol solvate of the compound (I) or a crystal thereof according to claim 1.
- 10 4. The crystal according to claim 3 wherein the content of 2-propanol is 0.1 to 2 moles per mole of the compound (I).
5. The crystal according to claim 3 wherein the content of 2-propanol is 0.5 mole per mole of the compound (I).
6. The crystal according to any one of claims 1 to 5 which has a powder X-ray
- 15 diffraction pattern whose characteristic peaks appear as the spacing (d) of 12.80, 11.21, 4.75, 4.58, 4.28 angstrom.
7. A 2-pentanol solvate of the compound (I) or a crystal thereof according to claim 1.
8. The crystal according to claim 7 which has a powder X-ray diffraction pattern whose characteristic peaks appear as the spacing (d) of 14.77, 10.25, 5.36, 5.03, 4.66,
- 20 4.42, 4.25, 4.14, 4.05, 3.97, 3.62 angstrom.
9. A 1-pentanol solvate of the compound (I) or a crystal thereof according to claim 1.
10. The crystal according to claim 9 which has a powder X-ray diffraction pattern whose characteristic peaks appear as the spacing (d) of 12.13, 5.66, 4.98, 4.83, 4.56, 4.43, 4.21, 4.14, 3.76 angstrom.

11. A t-amyl alcohol solvate of the compound (I) or a crystal thereof according to claim 1.

12. The crystal according to claim 11 which has a powder X-ray diffraction pattern whose characteristic peaks appear as the spacing (d) of 14.72, 10.25, 5.36, 5.04, 4.79, 4.66, 4.43, 4.25, 4.06 angstrom.

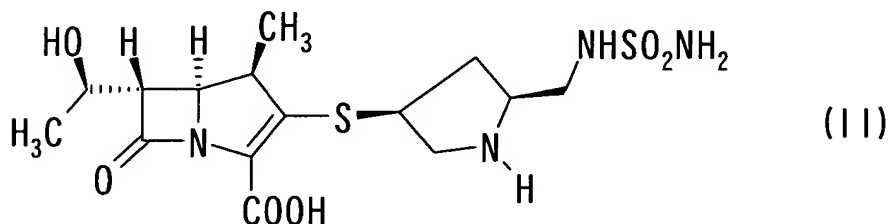
13. A 1-propanol solvate of the compound (I) or a crystal thereof according to claim 1.

14. The crystal according to claim 13 which has a powder X-ray diffraction pattern whose characteristic peaks appear as the spacing (d) of 12.91, 4.78, 4.58 angstrom.

15. A method for producing the compound according to any one of claims 1 to 14 which comprises dissolving the compound (I) or the solvate in a dissoluble solvent and adding an indissoluble solvent thereto.

16. The method according to claim 15 which comprises dissolving the compound (I) or the solvate in ethyl acetate and adding an alcohol thereto.

17. A method for producing the compound (II) of the formula:



a solvate or a crystal thereof, comprising a process to deprotect a solvate of the compound (I) or a crystal thereof according to any one of claims 1 to 14.

18. The method according to claim 17, which comprises obtaining a crystal of the compound (I) or the solvate by the method according to claims 15 or 16 and deprotecting the crystal.

19. The method according to claims 17 or 18 which is a method for producing 1 hydrate crystal of the compound (II).